

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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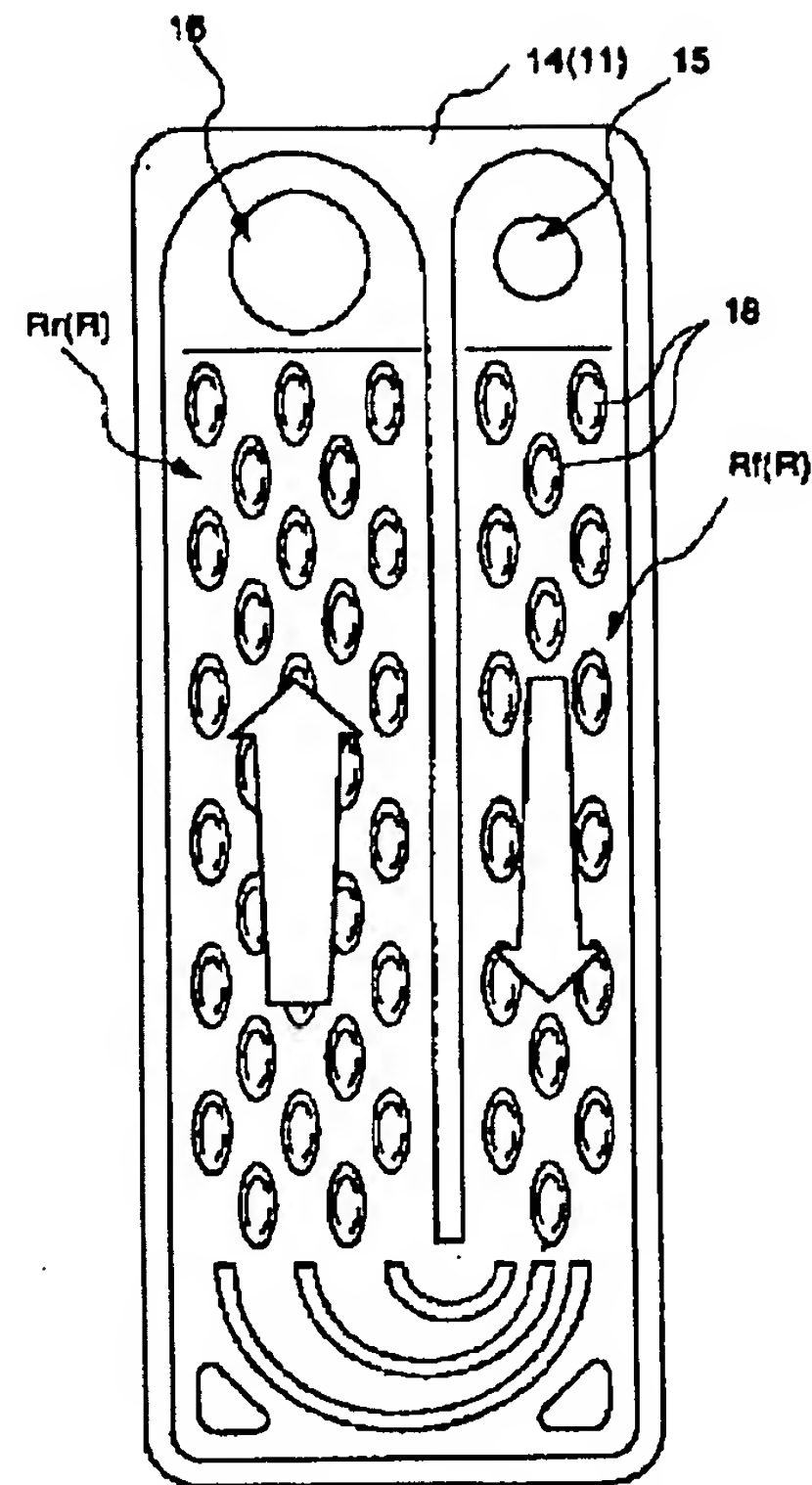
APPLICATION DATE : 03-08-99  
APPLICATION NUMBER : 11220551

APPLICANT : MITSUBISHI HEAVY IND LTD;

INVENTOR : INOUE MASASHI;

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TITLE : HEAT EXCHANGER



ABSTRACT : PROBLEM TO BE SOLVED: To enhance heat exchanging performance by reducing loss of pressure acting on a refrigerant channel depending on the variation in the dryness fraction of refrigerant.

SOLUTION: Plate type refrigerant conduction parts 11, formed by placing two flat plates subjected to drawing in layer and incorporating a refrigerant channel R, and cooling fins are placed alternately in layers. Each flat plate is provided with a refrigerant inlet 15 for introducing refrigerant into the refrigerant channel R and a refrigerant outlet 16 for delivering refrigerant passed through the refrigerant channel R. Refrigerant flowing through the refrigerant inlet 15 is distributed to each refrigerant conduction part 11 and passed through the refrigerant channel R before being discharged from the refrigerant outlet 16. In such a heat exchanger, cross-section of a return refrigerant channel Rr is set larger than that of a supply refrigerant channel Rf.

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